

TABLE OF CONTENTS

1989 Alpha Cradle® Awards J. V. Kostich	1
Positioning and Immobilization Device for Patients Receiving Radiation Therapy for Carcinoma of the Breast G. C. Bentel	3
Medulloblastoma Immobilization and Treatment Considerations E. J. Goldschmidt, Jr. and R. J. Holst	7
Technical Aspects in the Use of "Belly Boards" for Small Bowel Minimization L. E. Frank, L. A. Rowley, T. G. Shanahan, and M. P. Mehta	13
The Building of Free-Form Customized Immobilizers M. Buscher	17
A Modification of the HS3 Thoracic Alpha Cradle for Breast/Chestwall Patients M. Buscher	19
Alpha Cradles in Breast Cancer Treatment: Easy Immobilization for the Potentially Difficult Breast Set Up S. Hook and J. Pardy	21
Design and Production of Customized Field Shaping Devices for Electron Arc Therapy D. D. Leavitt, L. Earley, and J. R. Stewart	25
Literature Reviews	33
Announcement	37
Upcoming Events	39
AAMD Application for Membership	41
New Members	45

TABLE OF CONTENTS

Dynamic Beam Shaping D. D. Leavitt	47
An Analytic Approach to Optimized Retracted Missing Tissue Compensators D. M. Robinson and J. W. Scrimger	51
Effects of Electron Cutouts on Absorbed Dose In and Outside Varian-20 Electron Fields H. Kubo	61
Relative Calibration of a Well Type Isotope Calibrator for Brachytherapy Sources L. Wielopolski and J. Strzelczyk	67
Use of Spreadsheets to Manipulate Field Scanning Data W. Nikesch	71

TDF Formula with Arbitrary Exponents for Treatment Time and Fraction Numbers H. Kubo	77
Dosimetry of 70 MeV Proton Beams from the NIRS Cyclotron T. Hiraoka, K. Hoshino, A. Fukumura, and K. Kawashima	79
A Film Phantom for Routine Film Dosimetry in the Clinical Environment F. J. Bova	83
Literature Reviews	87
Upcoming Events	91
AAMD Application for Membership	93
New Members	97

VOLUME 15, NUMBER 3

SEPTEMBER 1990

TABLE OF CONTENTS

Treatment of Adenoid Cystic Carcinoma of the Salivary Gland, A Three-Field Technique S. M. Hummel, T. A. Buchholz, and G. E. Laramore	99
An Assessment of a Film Enhancement System for Use in a Radiation Therapy Department E. L. Solowsky, L. E. Reinstein, and A. G. Meek	107
Clinical Applications of a CT-Simulator: Precision Treatment Planning and Portal Marking in Breast Cancer C. M. Heidtman	113
Blood Irradiation: Rationale and Technique M. C. Lewis	119
The Use of Digitized Port Films in Assessing New Treatment Modalities J. E. Aldrich, J. A. Berry, and J. W. Andrew	121
Cadmium Free Lead Alloy for Reusable Radiotherapy Shielding C. R. Blackwell and Kim D. Amundson	127
RPC Technical Report #18: Information That Should Be Included in Every Patient's Radiotherapy Treatment Record (External Beam) W. F. Hanson, R. J. Shalek, T. H. Kirby, Joye Roll, and P. Kennedy	131
A Unique Nasopharynx Brachytherapy Technique C. D. Wolf, P. G. Shankar Giri, and E. P. Cytacki	133
A Needed Modification to Vendor Supplied Oversized 45° Wedges D. E. Mellenberg, Jr. and E. C. McCullough	137
Optimization of Arc Angles in Rotational Therapy A. J. Olch, A. R. Kagan, M. Wollin, and J. Bellotti	141
Implementation of Beam's Eye View into Routine Treatment Planning and Delivery S. Belanger and M. T. Gillin	147
A Standardized Block Fabrication Technique R. Famiglietti, B. Noriega, and R. Sanders	151
Upcoming Events	159

AAMD Application for Membership	161
New Members	165
Announcement	167

VOLUME 15, NUMBER 4

DECEMBER 1990

TABLE OF CONTENTS

GYN Implant Orthogonal Film Holder T. J. Nelson, W. J. Spanos, and R. D. Lindberg	169
The Use of a Personal Computer in the Workload Management of a Dosimetry Section L. A. Farraday	173
Table-Sag Errors in CT Treatment Planning F. A. Bombardiere, S. Dunn, and R. Ouellette	177
High-Dose Areas are Unintentionally Created as a Result of Gap Shifts When the Prescribed Dose in the Two Adjacent Areas are Different G. C. Bentel and E. C. Halperin	179
Misadministration of Prescribed Radiation Dose B. Swann-D'Emilia, J. C. H. Chu, and J. Daywalt	185
The Use of CT for Selectron Patients J. Palmer, R. Pearcey, and H. Lukka	193
Using a Pocket Computer to Calculate Monitor Units—Outline of a Program in Basic M. M. Ali, S. Chin, and F. Rey	199
A 100-cm Pseudosimulation Technique for 80-cm Isocentric Treatments R. G. Kurup and G. P. Glasgow	201
Electron Field Within an Electron Field Treatment of the Scalp or Other Curved Surfaces R. D. Stiteler, M. Sewell, and G. Van Heuvelen	205
The Relationship of Clinical Factors and Radiation Exposure Rates from Iodine-131 Treated Thyroid Carcinoma Patients J. J. Kovalic, P. W. Grigsby, and E. Slessinger	209
Dosimetry of I-125 Seeds Implanted on the Surface of a Cavity S. C. Prasad, D. A. Bassano, P. I. Fear, and G. A. King	217
Comparison of Dose Distribution by Means of Bolus Versus Water Bath Phantom Techniques in Treatment of Cutaneous Sarcoma of an Extremity N. A. Janjan, D. L. Zellmer, P. Lois, M. T. Gillin, and D. Hackbarth	221
1991 Buyers' Guide for Radiotherapy Equipment	227
Literature Reviews	239
Meeting Report	243
Announcements	247
Upcoming Events	251

AAMD Application for Membership	255
New Members	259
Volume 15 List of Contents and Author Index	I

